



U.S. Department  
of Transportation

Pipeline and  
Hazardous Materials  
Safety Administration

IAEA CERTIFICATE OF COMPETENT AUTHORITY  
SPECIAL FORM RADIOACTIVE MATERIALS  
CERTIFICATE USA/0651/S-96, REVISION 2

East Building, PHH-23  
1200 New Jersey Avenue SE  
Washington, D.C. 20590

This certifies that the source described has been demonstrated to meet the regulatory requirements for special form radioactive material as prescribed in the regulations of the International Atomic Energy Agency<sup>1</sup> and the United States of America<sup>2</sup> for the transport of radioactive material.

1. Source Identification - QSA Global, Inc. Model X.1018 (Manufactured on or after October 15, 1982).
2. Source Description - Cylindrical single encapsulation made of stainless steel and tungsten inert gas or laser seal welded. Approximate exterior dimensions are 20.32 mm (0.80 in.) in diameter and 56.69 mm (2.35 in.) in length. Minimum wall thickness is 1.27 mm (0.05 in.). Construction shall be in accordance with attached AEA Technology QSA, Inc. Drawing No. RBA62675, Rev. A.
3. Radioactive Contents - No more than 740.0 GBq (20.0 Ci) of Americium-241. The Am-241 is in oxide form and mixed with a beryllium powder and then pressed into a solid pellet.
4. Quality Assurance - Records of Quality Assurance activities required by Paragraph 310 of the IAEA regulations<sup>1</sup> shall be maintained and made available to the authorized officials for at least three years after the last shipment authorized by this certificate. Consignors in the United States exporting shipments under this certificate shall satisfy the applicable requirements of Subpart H of 10 CFR 71.
5. Expiration Date - This certificate expires on May 31, 2013.

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<sup>1</sup> "Regulations for the Safe Transport of Radioactive Material, 1996 Edition (Revised), No. TS-R-1 (ST-1, Revised)," published by the International Atomic Energy Agency(IAEA), Vienna, Austria.

<sup>2</sup> Title 49, Code of Federal Regulations, Parts 100-199, United States of America.


**CERTIFICATE USA/0651/S-96, REVISION 2**

This certificate is issued in accordance with paragraph 804 of the IAEA Regulations and Section 173.476 of Title 49 of the Code of Federal Regulations, in response to the May 16, 2008 petition by QSA Global, Inc., Burlington, MA, and in consideration of other information on file in this Office.

Certified By:



**May 20 2008**

 Robert A. Richard

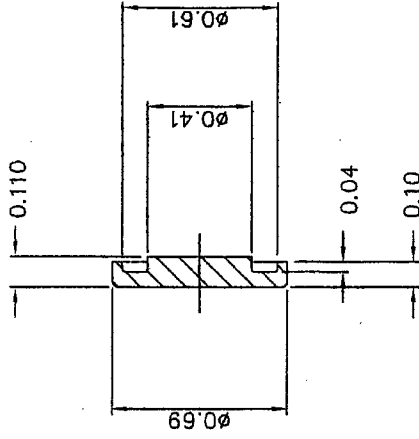
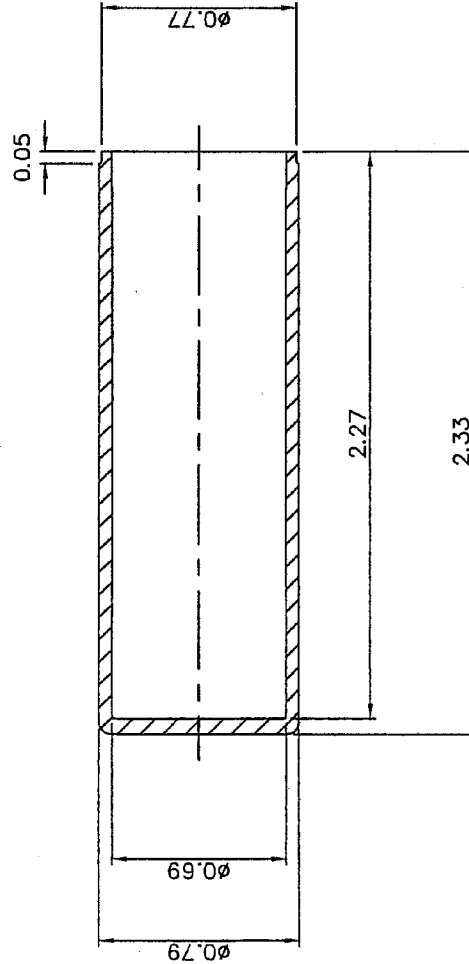
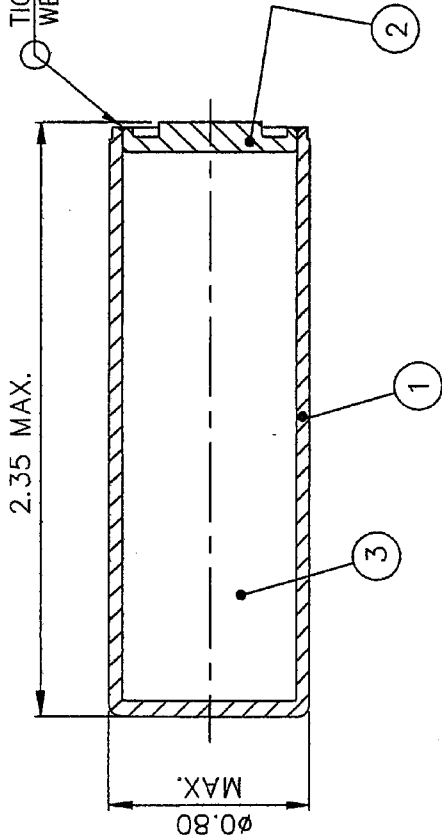
(DATE)

Deputy Associate Administrator for Hazardous Materials Safety

Revision 2 - Issued to extend the expiration date and to update corporate name.




ITEM No.	DESCRIPTION		QTY.
1	SHEATH BODY	STAIN.STL.	1
2	SHEATH LID	STAIN.STL.	1
3	ACTIVE MATERIAL		AR

TIG OR LASER  
WELD TO SEAL



ITEM 2

ITEM 1

		DESCRIPTIVE DRAWING	
40 NORTH AVE, BURLINGTON, MA 01803		TITLE X1018 CAPSULE ASSEMBLY	
APPROVALS  25 JUL 03  28 JUL 03		DIMENSIONS IN INCHES UNLESS OTHERWISE STATED TOLERANCES: X ±0.5 XX ±0.1 XXX ±0.05 ANGULAR ±5° INTERNAL $\nabla$ EXTERNAL $\nabla$	
SIZE A		DWG. NO. RBA62675	
SCALE: NONE		REV A	
ERF # 630		SHEET 1 OF 1	



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**CERTIFICATE NUMBER:** USA/0651/S-96, Revision 2

**ORIGINAL REGISTRANT(S):**

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